2590
1204

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#2

RAW SEQUENCE LISTING DATE: 12/06/2001
PATENT APPLICATION: US/09/987,456 TIME: 15:27:16

Input Set : A:\seq_list 1821_0070004 ascii
Output Set: N:\CRF3\12062001\I987456.raw

p.5

5 <110> APPLICANT: University of Rochester
6 Zauderer, Maurice
7 Ernest S. Smith
9 <120> TITLE OF INVENTION: In Vitro Methods Of Producing And Selecting
10 Immunoglobulin Molecules In Eukaryotic Cells
13 <130> FILE REFERENCE: 1821.0070004
C--> 16 **<140> CURRENT APPLICATION NUMBER: US/09/987,456**
C--> 16 **<141> CURRENT FILING DATE: 2001-11-14**
16 <150> PRIOR APPLICATION NUMBER: 60/271,424
18 <151> PRIOR FILING DATE: 2001-02-27
21 <150> PRIOR APPLICATION NUMBER: 60/262,067
23 <151> PRIOR FILING DATE: 2001-01-18
26 <150> PRIOR APPLICATION NUMBER: 60/298,087
28 <151> PRIOR FILING DATE: 2001-06-15
31 <150> PRIOR APPLICATION NUMBER: 60/249,268
33 <151> PRIOR FILING DATE: 2000-11-17
36 <160> NUMBER OF SEQ ID NOS: 147
39 <170> SOFTWARE: PatentIn version 3.1
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47 <212> TYPE: DNA
49 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
55 <223> OTHER INFORMATION: p7.5/tk promoter
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71 <220> FEATURE:
73 <223> OTHER INFORMATION: p 7.5/ATG0/tk promoter
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78 tgcaggaatt cgatatcaag cttatcgata ccgtcgacct cgaggggggg cctaactaac 120
80 taattttgtt tttgtgggcc cggcc 145
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85 <211> LENGTH: 148
87 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
95 <223> OTHER INFORMATION: p 7.5/ATG1/tk promoter
97 <400> SEQUENCE: 3
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100 ggctgcagga attcgatatc aagcttatcg ataccgtcga cctcgagggg gggcctaact 120
102 aactaatttt gtttttgtgg gcccggcc 148
105 <210> SEQ ID NO: 4

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Input Set : A:\seq_list 1821_0070004 ascii
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109 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
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117 <223> OTHER INFORMATION: p7.5/ATG2/tk vector
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122 gggctgcagg aattcgatat caagcttatc gataccgtcg acctcgaggg ggggcctaac 120
124 taactaattt tgtttttgtg ggcccggcc 149
127 <210> SEQ ID NO: 5
129 <211> LENGTH: 150
131 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
139 <223> OTHER INFORMATION: p7.5/ATG3/tk vector
141 <400> SEQUENCE: 5
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144 cgggctgcag gaattcgata tcaagcttat cgataccgtc gacctcgagg gggggcctaa 120
146 ctaactaatt ttgtttttgt gggcccggcc 150
149 <210> SEQ ID NO: 6
151 <211> LENGTH: 15
153 <212> TYPE: PRT
155 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
161 <223> OTHER INFORMATION: linker peptide
163 <400> SEQUENCE: 6
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166 1 5 10 15
169 <210> SEQ ID NO: 7
171 <211> LENGTH: 15
173 <212> TYPE: PRT
175 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
181 <223> OTHER INFORMATION: linker peptide
183 <400> SEQUENCE: 7
185 Glu Ser Gly Arg Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
186 1 5 10 15
189 <210> SEQ ID NO: 8
191 <211> LENGTH: 14
193 <212> TYPE: PRT
195 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
201 <223> OTHER INFORMATION: linker peptide
203 <400> SEQUENCE: 8
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206 1 5 10
209 <210> SEQ ID NO: 9
211 <211> LENGTH: 15
213 <212> TYPE: PRT

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Input Set : A:\seq_list 1821_0070004 ascii
Output Set: N:\CRF3\12062001\I987456.raw

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219 <220> FEATURE:
221 <223> OTHER INFORMATION: linker peptide
223 <400> SEQUENCE: 9
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226 1 5 10 15
229 <210> SEQ ID NO: 10
231 <211> LENGTH: 14
233 <212> TYPE: PRT
235 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
241 <223> OTHER INFORMATION: linker peptide
243 <400> SEQUENCE: 10
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246 1 5 10
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251 <211> LENGTH: 14
253 <212> TYPE: PRT
255 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
261 <223> OTHER INFORMATION: linker peptide
263 <400> SEQUENCE: 11
265 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly
266 1 5 10
269 <210> SEQ ID NO: 12
271 <211> LENGTH: 18
273 <212> TYPE: PRT
275 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
281 <223> OTHER INFORMATION: linker peptide
283 <400> SEQUENCE: 12
285 Lys Glu Ser Gly Ser Val Ser Ser Glu Gln Leu Ala Gln Phe Arg Ser
286 1 5 10 15
289 Leu Asp
293 <210> SEQ ID NO: 13
295 <211> LENGTH: 16
297 <212> TYPE: PRT
299 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
305 <223> OTHER INFORMATION: linker peptide
307 <400> SEQUENCE: 13
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310 1 5 10 15
313 <210> SEQ ID NO: 14
315 <211> LENGTH: 1555
317 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
325 <223> OTHER INFORMATION: pVHE transfer plasmid

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Input Set : A:\seq_list 1821_0070004 ascii
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327 <400> SEQUENCE: 14
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332 agggagtgca tccgccccaa ccctttccc cctcgtctcc tgtgagaatt ccccgtcgga 180
334 tacgagcagc gtggccgttg gctgcctcgc acaggacttc cttcccgact ccatcacttt 240
336 ctcctggaaa tacaagaaca actctgacat cagcagcacc cggggcttcc catcagtcct 300
338 gagaggggc aagtacgcag ccacctcaca ggtgctgctg ccttccaagg acgtcatgca 360
340 gggcacagac gaacacgtgg tgtgcaaagt ccagcacccc aacggcaaca aagaaaagaa 420
342 cgtgcctctt ccagtgattg ctgagctgcc tcccaaagtg agcgtcttcg tcccaccccg 480
344 cgacggcttc ttcggcaacc cccgcagcaa gtccaagctc atctgccagg ccacgggttt 540
346 cagtccccgg cagattcagg tgtcctggct gcgcgagggg aagcaggtgg ggtctggcgt 600
348 caccacggac caggtgcagg ctgaggccaa agagtctggg cccacgacct acaaggtgac 660
350 tagcacactg accatcaaag agagcgactg gctcagccag agcatgttca cctgccgcgt 720
352 ggatcacagg ggcctgacct tccagcagaa tgcgtcctcc atgtgtgtcc ccgatcaaga 780
354 cacagccatc cgggtcttcg ccatcccccc atcctttgcc agcatcttcc tcaccaagtc 840
356 caccaagttg acctgcctgg tcacagacct gaccacctat gacagcgtga ccatctcctg 900
358 gacccgccag aatggcgaag ctgtgaaaac ccacaccaac atctccgaga gccaccccaa 960
360 tgccactttc agcgccgtgg gtgaggccag catctgcgag gatgactgga attccgggga 1020
362 gaggttcacg tgcaccgtga cccacacaga cctgccctcg ccactgaagc agaccatctc 1080
364 ccggcccaag ggggtggccc tgcacaggcc cgatgtctac ttgctgccac cagcccggga 1140
366 gcagctgaac ctgcgggagt cggccaccat cacgtgcctg gtgacgggct tctctcccgc 1200
368 ggacgtcttc gtgcagtgga tgcagagggg gcagcccttg tccccggaga agtatgtgac 1260
370 cagcgcccca atgcctgagc cccaggcccc aggccggtac ttcgcccaca gcatcctgac 1320
372 cgtgtccgaa gaggaatgga acacgggggа gacctacacc tgcgtggtgg cccatgaggc 1380
374 cctgcccaac agggtcactg agaggaccgt ggacaagtcc accgaggggg aggtgagcgc 1440
376 cgacgaggag ggctttgaga acctgtgggc caccgcctcc accttcatcg tcctcttcct 1500
378 cctgagcctc ttctacagta ccaccgtcac cttgttcaag gtgaaatgag tcgac 1555
381 <210> SEQ ID NO: 15
383 <211> LENGTH: 6
385 <212> TYPE: DNA
387 <213> ORGANISM: Artificial Sequence
391 <220> FEATURE:
393 <223> OTHER INFORMATION: unique BssHII site in pVHE
395 <400> SEQUENCE: 15
396 gcgcgc 6
399 <210> SEQ ID NO: 16
401 <211> LENGTH: 7
403 <212> TYPE: DNA
405 <213> ORGANISM: Artificial Sequence
409 <220> FEATURE:
411 <223> OTHER INFORMATION: Unique BstEII site in pVHE
413 <400> SEQUENCE: 16
414 ggtcacc 7
417 <210> SEQ ID NO: 17
419 <211> LENGTH: 446
421 <212> TYPE: DNA
423 <213> ORGANISM: Artificial Sequence
427 <220> FEATURE:
429 <223> OTHER INFORMATION: pVKE transfer plasmid

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Input Set : A:\seq_list 1821_0070004 ascii
Output Set: N:\CRF3\12062001\I987456.raw

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432 ggccaaaaat tgaaaaacta gatctattta ttgcacgcgg ccgcccatgg gatggagctg     60
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436 ctgtggctgc accatctgtc ttcatcttcc cgccatctga tgagcagttg aaatctggaa    180
438 ctgcctctgt tgtgtgcctg ctgaataact tctatcccag agaggccaaa gtacagtgga    240
440 aggtggataa cgccctccaa tcgggtaact cccaggagag tgtcacagag caggacagca    300
442 aggacagcac ctacagcctc agcagcaccc tgacgctgag caaagcagac tacgagaaac    360
444 acaaagtcta cgcctgcgaa gtcacccatc agggcctgag ctcgcccgtc acaaagagct    420
446 tcaacagggg agagtgttag gtcgac                                        446
449 <210> SEQ ID NO: 18
451 <211> LENGTH: 6
453 <212> TYPE: DNA
455 <213> ORGANISM: Artificial Sequence
459 <220> FEATURE:
461 <223> OTHER INFORMATION: unique ApaLI site in pVKE plasmid
463 <400> SEQUENCE: 18
464 gtgcac                                                                6
467 <210> SEQ ID NO: 19
469 <211> LENGTH: 6
471 <212> TYPE: DNA
473 <213> ORGANISM: Artificial Sequence
477 <220> FEATURE:
479 <223> OTHER INFORMATION: unique XhoI site in pVKE plasmid
481 <400> SEQUENCE: 19
482 ctcgag                                                                6
485 <210> SEQ ID NO: 20
487 <211> LENGTH: 455
489 <212> TYPE: DNA
491 <213> ORGANISM: Artificial Sequence
495 <220> FEATURE:
497 <223> OTHER INFORMATION: pVLE transfer plasmid
499 <400> SEQUENCE: 20
500 ggccaaaaat tgaaaaacta gatctattta ttgcacgcgg ccgcccatgg gatggagctg     60
502 tatcatcctc ttcttggtag caacagctac aggcgtgcac ttgactcgag aagcttaccg    120
504 tcctacgaac tgtggctgca ccatctgtct tcatcttccc gccatctgat gagcagttga    180
506 aatctggaac tgcctctgtt gtgtgcctgc tgaataactt ctatcccaga gaggccaaag    240
508 tacagtggaa ggtggataac gccctccaat cgggtaactc ccaggagagt gtcacagagc    300
510 aggacagcaa ggacagcacc tacagcctca gcagcaccct gacgctgagc aaagcagact    360
512 acgagaaaca caaagtctac gcctgcgaag tcacccatca gggcctgagc tcgcccgtca    420
514 caaagagctt caacagggga gagtgttagg tcgac                               455
517 <210> SEQ ID NO: 21
519 <211> LENGTH: 6
521 <212> TYPE: DNA
523 <213> ORGANISM: Artificial Sequence
527 <220> FEATURE:
529 <223> OTHER INFORMATION: Unique ApaLI site in pVLE plasmid
531 <400> SEQUENCE: 21
532 gtgcac                                                                6
535 <210> SEQ ID NO: 22
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Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY DATE: 12/06/2001
PATENT APPLICATION: **US/09/987,456** TIME: 15:27:17

Input Set : **A:\seq_list 1821_0070004 ascii**
Output Set: **N:\CRF3\12062001\I987456.raw**

L:16 M:270 C: Current Application Number differs, Replaced Current Application No
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:2456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124
L:2534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125